NetVanta 344

Business-class ADSL/ADSL2/ADSL2+ Router with Four-port Switch

Product Features

- Affordable routing solutions for business-class ADSL networks
- Integral 4-port managed Ethernet switch
- Innovative ADSL2+ technology provides further reach and higher bandwidth (up to 25 Mbps)
- Standards-based routing/switching protocols, based on the widely deployed NetVanta Series
- Feature-rich ADTRAN Operating System (AOS)
- Stateful inspection firewall for network security
- Optional VPN for secure corporate connectivity across the Internet
- Recognizable Command Line Interface (CLI) eliminates re-training
- User-friendly web Graphical User Interface (GUI)
- NAT-compatible SIP ALG for VoIP
- Interoperable with other NetVanta product offerings and carrier-based ADSL service offerings
- Industry-leading support, service, and warranty

The NetVanta 344 is a business-class ADSL/ADSL2/ADSL2+ IP access router with an integral four-port Ethernet switch. It provides a single ADSL network interface and four auto-sensing 10/100Base-T Ethernet interfaces. This product is ideal for carrier bundled service offerings and enterprise Internet access for secure, high-speed corporate connectivity. In addition to supporting ADSL (Annex A and B), and ADSL2, the NetVanta 344 supports today's most advanced ADSL technology, ADSL2+, for applications taking advantage of its greater reach and higher bandwidth, up to 25 Mbps. A variety of WAN protocols are supported including PPP over ATM and PPPoE over ATM.

Standards Protocols

The versatile hardware platform of the NetVanta 344 is further complemented with the ADTRAN Operating System (AOS). The AOS allows for the support of standards-based switching, VLAN tagging, static and default routes, demand routing, and allows for fast, accurate network convergence using routing protocols such as BGP, OSPF, and RIP.

Security

The AOS provides a powerful, high performance stateful inspection firewall. It will examine all incoming and outgoing packets against the security policies established by the IT manager. In addition, the firewall can identify and protect against common Denial of Service (DoS) attacks like TCP syn flooding, IP spoofing, ICMP redirect, ping-of-death, and IP reassembly problems.

With the AOS Enhanced Feature Pack Upgrade, the NetVanta 344 supports up to five simultaneous IPSec VPN tunnels, and encryption algorithms like DES, 3DES, and AES. Witb this upgrade, the NetVanta 344 is fully compatible with other IPSec VPN equipped NetVanta products.

Quality of Service (QoS)

QoS is also supported for delay sensitive traffic like VoIP or video. To prioritize mission critical traffic and control network congestion, the NetVanta 344 uses Low Latency Queuing, Weighted Fair Queuing (WFQ), Class-based WFQ, and DiffServ marking to establish priority of IP packets routed over the WAN.

VoIP Ready

In combination with the QoS features, a specialized SIP Application Layer Gateway (ALG) allows SIP traffic to traverse NAT-enabled firewalls. For an enterprise network, this interoperability allows IP PBXs, phones, and other SIP-based devices to set up, tear down, and pass voice and call control messages seamlessly through the integral NAT-enabled firewall.

Administration

The AOS offers a standard Command Line Interface (CLI) that mimics the widely adopted, industry *de facto* standard. The sequence of commands to configure similar devices is almost identical, virtually eliminating training costs associated with re-learning a new operating system or costly industry certifications. The CLI also allows for configuration scripts to be used, saved, and downloaded for a quick and easy recovery mechanism. In addition, an intuitive Web-based GUI provides step-by-step configuration wizards, management capability, and the ability to upload firmware updates.

ADTRAN, the leader in WAN connectivity, offers proven and dependable equipment that will increase your network performance, lower costs, and allow migration to next generation technologies. The NetVanta 344 is no exception.

ADTRAN

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ADTRAN is an ISO 9001, ISO 14001, and a TL 9000 certified supplier.

I-61200426L1-8F AOS 16.1 August 2007
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Business-class ADSL/ADSL2/ADSL2+ Router with 4-port Switch

Physical Interface

- **DSL:** ADSL/ADSL2/ADSL2+ Interface
  - ADSL ITU G.992.1 (Annex A)
  - ADSL ITU G.992.1 (Annex B)
  - ADSL ITU G.992.2 (Annex A) G.Lite
  - Extended Reach ADSL (RADSL)
  - ADSL2 ITU G.992.3 (Annex A)
  - ADSL2+ ITU G.992.5 (Annex A)
- **Ethernet:** Four-port, Auto-sensing Ethernet Switch 10/100Base-T Full Duplex (RJ-45)

Diagnostics LEDs

- Power
- Ethernet
- DSL
- Internet

Memory

- **RAM:** 32 MB
- **FLASH:** 16 MB

Protocols

- eBGP/iBGP
- DSPF
- RIP (v1 and v2)
- Demand Routing
- GRE
- IGMP v2
- PPP over ATM (RFC 2364)
- PPPoE over ATM (RFC 2516)
- Classical IP over ATM (RFC 2225)
- AAL5
- PAP and CHAP

Quality of Service

- **DSL:** Low Latency, Weighted Fair Queuing (WFQ), and Class-based WFQ
- **Ethernet:** Weighted Round Robin (WRR) and Strict Priority Queuing
- DiffServ Packet Marking and Recognition
- Frame Relay Fragmentation

Switching

- VLAN Support (802.1Q)
- Spanning Tree (802.1D)
- Rapid Spanning Tree (802.1w)
- 802.1p and DiffServ QoS

Administration

- Familiar Command Line Interface (CLI)
- Web-based GUI
- SNMP v3
- Email Alerts (SMTP)
- n-Command support
- SYSLOG Logging
- Policy Statistics

DHCP

- Client, Server, and Relay

Security

Firewall

- Stateful Inspection Firewall
- Denial of Service (DoS) Protection
- Access Control Lists
- Application Level Gateways (ALGs)

Network Address Translation

- Basic NAT (1:1), NAPT (Many:1), and Port Translation
- NAT compatible SIP ALG

Secure Management

- Multi-level access control
- RADIUS AAA
- TACACS+
- SSH CLI and SSL GUI

Optional Virtual Private Network (VPN)

- **IPSec Tunnel Mode:** 5 Tunnels
- **Encryption:** DES, 3DES, and AES
- **Authentication Mechanisms:** XAUTH, Digital certificates, Preshared keys, and Secure ID

Environment

- **Operating Temperature:** 0° to 50 °C (32° to 122 °F)
- **Storage Temperature:** -20° to 70 °C (-4° to 158 °F)
- **Relative Humidity:** Up to 95%, non-condensing

Physical

- **Chassis:** Self-standing, plastic enclosure
- **Dimensions:** 4.1cm H, 19.0 cm W, 13.3 cm D
- **Weight:** 1 kg
- **Power:** 12 VDC, 800 mA, 6 W (AC to DC Power Adapter Included)

Agency Approvals

- FCC Part 68
- Industry Canada CS03
- CE Mark, UL and Canadian UL (CUL), IEC/EN, CSA
- RoHS

Ordering Information

Equipment	Part #
NetVanta 344 (Annex A)	
NetVanta 344	4200428E1#IN
NetVanta 344 with VPN	4200426E2#IN
NetVanta 344 (Annex B)	
NetVanta 344	1200423E1#IN
NetVanta 344 with VPN	4200423E2#IN
VPN Software Upgrade	
NetVanta 344 VPN Software Upgrade (Annex A)	1950426L2
NetVanta 344 VPN Software Upgrade (Annex B)	1950423L2

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